PTO/SB/21 (08-03) Approved for use through 08/30/2003. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Paperwork Reduction Act of 1995, no persons are required to respond t collection of information unless it displays a valid OMB control number **Application Number** EM & TRAD 10/606,467 **TRANSMITTAL** Filing Date June 30, 2004 **FORM** First Named Inventor Xing Yuan Art Unit 2832 (to be used for all correspondence after initial filing) Examiner Name Ramon M Barrera Attorney Docket Number 10 IGC-102 Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance communication Fee Transmittal Form Drawing(s) to Technology Center (TC) Appeal Communication to Board Licensing-related Papers Fee Attached of Appeals and Interferences Appeal Communication to TC ~ Amendment/Reply Petition (Appeal Notice, Brief, Reply Brief) Petition to Convert to a Proprietary Information After Final Provisional Application Power of Attorney, Revocation Status Letter Affidavits/declaration(s) Change of Correspondence Address Other Enclosure(s) (please Terminal Disclaimer Extension of Time Request Identify below): Request for Refund **Express Abandonment Request** CD, Number of CD(s) Information Disclosure Statement Remarks Certified Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm George L Rideout, Jr. Individual name Signature Date May **24** 2004 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Typed or printed name George L Rideout, Jr. May **24** 2004 Signature

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PTO/SB/17 (10-03)

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FEE	TRAN	ISMIT	TAL
	for FY	2004	•

(\$) 0

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

Name (Print/Type)

Signature

George L Rideout, Jr.

Application Number	10/606,467					
Filing Date	June 30, 2004					
First Named Inventor	Xing Yuan					
Examiner Name	Ramon M Barrera					
Art Unit	2832					
Attorney Docket No.	IGC-102					

Complete if Known

METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)					
Check Credit card Money Other None	3. ADDITIONAL FEES						
Deposit Account:		Entity					
Deposit	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid	
Account Number	1051	130	2051	65	Surcharge - late filing fee or oath		
Deposit Account	1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet		
Name The Director is authorized to: (check all that apply)	1053	130	1053	130	Non-English specification		
Charge fee(s) indicated below Credit any overpayments		2,520	1812	2,520	For filing a request for ex parte reexamination		
Charge any additional fee(s) or any underpayment of fee(s)		920*	1804	920*	Requesting publication of SIR prior to Examiner action		
Charge fee(s) indicated below, except for the filing fee		1,840*	1805	1.840*	Requesting publication of SIR after		
to the above-identified deposit account.		•		.,	Examiner action		
FEE CALCULATION		110	2251	55	Extension for reply within first month		
1. BASIC FILING FEE	1252	420	2252	210	, ,		
Large Entity Small Entity	1253	950	2253	475	Extension for reply within third month		
Fee Fee Fee Fee Description Fee Paid Code (\$) Code (\$)	1254	1,480	2254	740	Extension for reply within fourth month		
1001 770 2001 385 Utility filing fee	1255	2,010	2255	1,005	Extension for reply within fifth month		
1002 340 2002 170 Design filing fee	1401	330	2401	165	Notice of Appeal		
1003 530 2003 265 Plant filing fee	1402	330	2402	165	Filing a brief in support of an appeal		
1004 770 2004 385 Reissue filing fee	1403	290	2403	145	Request for oral hearing		
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding		
SUBTOTAL (1) (\$)	1452	110	2452	55	Petition to revive - unavoidable		
		1,330	2453	665	Petition to revive - unintentional		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		1,330	2501	665	Utility issue fee (or reissue)		
Extra Claims below Fee Paid Total Claims 17 -20** = 0 x 18 = 0	1502	480	2502	240	Design issue fee		
Independent	1503	640	2503	320	Plant issue fee		
Claims 3 - 3 - 2 X 00 1	1460	130	1460	130	Petitions to the Commissioner		
Multiple Dependent 290 = 0		50	1807	7 50	Processing fee under 37 CFR 1.17(q)		
Large Entity Small Entity Fee Fee Fee Fee Fee Description	1806	180	1806		Submission of Information Disclosure Stmt		
Code (\$) Code (\$)	8021	40	802°	1 40	Recording each patent assignment per property (times number of properties)		
1202 18 2202 9 Claims in excess of 20	1809	770	2809	385	Filing a submission after final rejection		
1201 86 2201 43 Independent claims in excess of 3	٠				(37 CFR 1.129(a))		
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))		
1204 86 2204 43 ** Reissue independent claims over original patent	1801	770	2801	385	Request for Continued Examination (RCE)		
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802	900	1802	900	Request for expedited examination of a design application		
SUBTOTAL (2) (\$) 0	Other fee (specify)						
**or number previously paid, if greater; For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 0						
SUBMITTED BY (Complete (if applicable))							

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Registration No.

(Attorney/Agent)

43880

Telephone 502-452-7792

May**24** 2004





Atty. Dkt. No. IGC-102 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Xing Yuan, et al.

Serial No.: 10/606,467 : Art Unit: 2832

Filed: June 30, 2003 : Examiner: Ramon M Barrera

For: Method and Apparatus To Trigger Superconductors In Current Limiting Devices

Amendment

Commissioner for Patents PO Box 1450 Alexandria VA 22313-1450

In the Specification

Before Paragraph [001] please insert the following paragraph.

The U.S. Government has a paid-up license in this invention and the right in limited circumstances to require the patent owner to license others on reasonable terms as provided for by the terms of Contract No. DE-FC36-03G013033 awarded by the Department of Energy.

Please replace paragraph [0006] as follows.

[0006] US patent application 2003/0021074A1 (Serial No. 10/051,671) published January 30, 2003, 6,664,875, assigned to the assignee of the present invention, and entitled "Matrix-type Superconducting Fault Current Limiter," herein incorporated by reference, describes a mechanism that combines all three of the quenching factors of a superconductor, namely current, magnetic field and temperature, to achieve more uniform quenching of the superconductor during current limiting. This MFCL uses a magnetic field as a majorone of the triggering